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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/496,794	02/02/2000	John T. Moore	MICT-0005-D1-US	6700	
7590 10/14/2004			EXAM	EXAMINER	
Trop Pruner &			OWENS, DO	OUGLAS W	
8554 Katy Free Suite 100	way		ART UNIT	PAPER NUMBER	
Houston, TX 77024			2811		
			DATE MAILED: 10/14/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/496,794	MOORE ET AL.			
		Examiner	Art Unit			
		Douglas W Owens	2811			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE MA - Extension after SIX - If the per - If NO per - Failure to Any reply	TENED STATUTORY PERIOD FOR REF ILING DATE OF THIS COMMUNICATION is of time may be available under the provisions of 37 CFR (6) MONTHS from the mailing date of this communication. od for reply specified above is less than thirty (30) days, a recovery the maximum statutory perion for reply is specified above, the maximum statutory perion for the perion of the perion	N. 1.136(a). In no event, however, may a reply be tin reply within the statutory minimum of thirty (30) day od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠ Re	esponsive to communication(s) filed on 16	3 July 2004.				
·	'his action is FINAL . 2b) ☐ This action is non-final.					
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition	of Claims					
4) ☐ Claim(s) 26-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 26-30 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application	Papers					
10)∐ The Ap Re	e specification is objected to by the Examile drawing(s) filed on is/are: a) _ a plicant may not request that any objection to the placement drawing sheet(s) including the correspond to or declaration is objected to by the	ccepted or b) objected to by the line drawing(s) be held in abeyance. See ection is required if the drawing(s) is objection.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority und	er 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of	Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
	on Disclosure Statement(s) (PTO-1449 or PTO/SB/ o(s)/Mail Date	08) 5) ☐ Notice of Informal F 6) ☐ Other:	atent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 26 30 are rejected under 35 U.S.C. 102(b) as being anticipated by US patent No. 5,763,932 to Pan et al.
- 3. Regarding claim 26, Pan et al. teaches a semiconductor structure (Figs. 9 14, for example) comprising:

a support (42);

a first material (44) on the support, the first material having a first etch rate;

a trench (54) formed through the first material and into the support; and

a trench filler material (72) deposited in the trench, the trench filler material having an etch rate substantially similar to the first etch rate (Col. 4, lines 17 – 24; Col. 5, lines 46 – 48, both oxides are TEOS, so they would have the same etch rate), the semiconductor structure having an exposed upper surface formed of the first material and the trench filer material (See Fig. 14).

Regarding claim 27, Pan et al. teaches a semiconductor structure, wherein the first material includes silicon dioxide deposited from tetraethyorthosilicate.

Regarding claim 28, Pan et al. teaches a semiconductor structure, wherein the first material includes silicon dioxide deposited by chemical vapor deposition (Col. 4, lines 25 – 28).

Regarding claim 29, Pan et al. teaches a semiconductor structure, wherein the first material includes silicon dioxide deposited from tetraethyorthosilicate.

Regarding claim 30, Pan et al. teaches a semiconductor structure, wherein the first material includes silicon dioxide deposited by chemical vapor deposition (Col. 5, lines 45-48).

Response to Arguments

Applicant argues that Pan et al do not teach a structure, wherein both the trench filler and the first material are exposed. This feature can be seen in Fig. 14 of Pan et al., and further distinguished in lines 27 – 29 of Col. 6, where Pan et al. discloses that the silicon over the first material is removed by a wet etch process.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas W Owens whose telephone number is 571-272-1662. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DWO

SUPERVISORY PATENT EXAMINER